

THE TECH

VOL. XXVI. No. 24

BOSTON, MASS., MONDAY, NOVEMBER 19, 1906

PRICE THREE CENTS

HARVARD BADLY DEFEATED.

Technology Wins Annual Cross Country Race with Ease.

In the best race that a Technology Cross Country Team ever ran, the Harvard varsity team was defeated Friday afternoon, 18 to 39. The Harvard team is exceptionally strong this year and was generally expected to win the race. The fact that Tech defeated this team, and also the fact that the Tech men who finished in the first three positions all broke the record for the course, shows that the Institute has the strongest cross country team that has represented us in years.

From the very start of the race, the Harvard men were distanced. MacGregor took the lead at the beginning but was soon passed by Howland, who kept to the front throughout the remainder of the race. MacGregor took second place although he was closely pressed by Callaway. Crosby of Harvard was not far behind the leaders, and he in turn was closely followed by Udale of Tech. Chapman, who finished in seventh place, was the fifth Tech man to score.

The record for the course, 24 minutes and 50 seconds, was broken by the first three men to finish, Howland going the distance 19 seconds faster. The results of this race seem to show that Technology has an exceptionally fine prospect for the intercollegiate cross country race which will be run off at Princeton on Nov. 28. This year's team is undoubtedly stronger than that of last year, which finished fourth in the race at Travis Island.

TECHNOLOGY CLUB.

The third "Smoke Talk" of the season will be given by Prof. George E. Hale '90, on Monday evening, Nov. 19, immediately following the business meeting. His subject will be "A New Mountain Observatory," and the talk will be illustrated with lantern slides.

At this meeting the Club is to act upon the following recommendation of the Council:

That Article XI., paragraph 1, of the by-laws be so amended as to read: "The name and residence of any person desiring to join the Club must be presented in writing, indorsed by two members of the Club, to the Membership Committee through the Secretary, who shall, if the applicant receive the approval of a majority of the Membership Committee, post the name, with the names of the indorsers, in a conspicuous place in the Club-house at least fourteen days before action can be taken by the Council. The Secretary shall include the name of the candidate and his indorsers with the notice of the Club meeting next following the date of posting of such name. Any member of the Club having objection to the admission of the applicant may file such objection with the chairman of the Membership Committee. The Council shall vote upon such approved names by letter ballot not less frequently than once in each month. Seven votes shall be necessary to constitute a ballot and two negative votes a rejection of the candidate."

SOPHOMORES BARELY WIN.

Field Day 1906 the Closest and Hardest Fought Ever Held — 1909 Wins Relay Race and Ties Football Game.

In a Field Day that will go down into the history of the Institute as the closest and hardest fought competition that the two lower classes have ever held, the Sophomore class last Friday barely won the right to engrave its numerals on the Field Day Trophy Cup. The 1909 men have to thank Dame Fortune for their victory more than their own work.

It was evident from the middle of the first half that the football game was to be a no-score contest. The tug-of-war match was undoubtedly a clean-cut victory for the Freshman team, so that the final result of Field Day rested on the Relay Race, in which the Freshmen clearly outrun their opponents but had a streak of bad luck that defeated them.

In spite of the heavy rains of Thursday, the field and track were in good condition. The ground was soft, and in places rather slippery, but on the whole satisfactory. The weather itself was as good as might have been expected, although the spectators would have preferred a higher temperature. The number of spectators was undoubtedly the largest that ever witnessed a Field Day, and the whole scene was one of such animation and gayety as Tech Field never before presented.

Relay Race Close.

The relay race, with its constantly shifting lead, presented one of the closest contests ever seen on Tech Field. The advantage from the start was evidently with the Freshmen, and but for the drop-

ping of the flag on the sixth lap, and Fernstrom's unfortunate stumbling, 1910 would have won. The Sophomores were undoubtedly outrun, for almost every Freshman gained on his opponent.

Whitaker, '09, got a lead of three yards at the very start, but Stewart cut this down, and because the '09 runners dropped the flag at the relay, 1910 had a lead of thirty yards, which was maintained throughout the next relay. Allen, '09, on the fourth, cut the gap down to fifteen yards. At the end of the sixth relay, 1909 had a thirty yard lead, for the fifth runner for the Freshman dropped his flag. Brown, '10, cut down the gap a few yards, the Sophomores lost a few more on the next relay. The 1910 men kept gaining until, at the end of the tenth relay, the men were even. The Sophomore managed to get away first on the last lap, but Fernstrom was rapidly cutting down the small lead which 1909 had, when he stumbled and got so far behind he couldn't make up the gap, although he made a great attempt. The time for the race was slow, being 5 minutes, 9½ seconds.

Tug-of-War Exciting.

In one of the prettiest tug-of-war matches ever seen around Boston, the Freshmen won in the time of 2 minutes and 9 seconds. At the very start '10 pulled the tape along steadily for a three yards gain, when the Sophomores braced, and, after a few seconds in which the tape did not move, succeeded in pulling the rope two yards on their

(Continued on Page 4.)

LIVELY CELEBRATION.

"Tech Night" at the Tremont Theatre after Field Day Friday evening was not as lively as former ones have been, but it proved to be an ideal college night. A better play than "The College Widow" could not have been secured, for the college jokes and college fun were very appropriate.

The theatre was decorated with 1909 and 1910 banners, and all the players were wearing either 1909 or 1910 arm bands. In the last act a dog was brought on, wearing a blanket having 1909 on each side. No attempt was made at any time to interrupt the play, unless hearty applause and cheers for good acting and witty sayings can be called interruptions.

The "funny" men of the Atwater college of the play got off several jokes on well known Tech professors. The interest of the play caused complete forgetfulness of Field Day, and when "Billy Bolton" ran 105 yards for a touchdown, Sophomores, Freshmen and everybody broke out in a wild cheer for "Atwater."

The intervals between the acts were spent in cheering and singing Tech songs. The evening was, on the whole, an excellent celebration and a fitting conclusion of Field Day.

NEW GAME AT HARVARD.

Dr. D. A. Sargent, director of the Hemenway gymnasium at Harvard, has been at work this fall on a new game which resembles basketball. This new game can be played by either 12 or 16 men, on a field 100 feet square. There are four goals on the sides of the field, the two opposite goals being defended by the same team.

The field is marked out with a 25 foot square in each corner and a 50 foot square in the center, the remaining space in front of the goals being occupied by two goalkeepers and two opponents. In the centre square there are eight men, four of each team, and in each small square, two men on opposing sides. The men are not allowed to leave their assigned territory.

The rules of the game are very much like those of basketball except that the kind of goals and the method of scoring is essentially different, and intended to develop a more interesting game. The ball, which is the same as the one used in basketball, must be thrown or kicked through a goal six feet high and defended by two goalkeepers. A goal thrown from the centre square count three, thrown from the side squares two, and kicked from the side squares one.

CALENDAR.

MONDAY, NOVEMBER 19.

- 1.00 P.M. Fencing Team Meeting in 22 Rogers.
 - 1.10 P.M. Tech Board Meeting in 30 Rogers.
 - 4.00 P.M. Mandolin Club Rehearsal in 31 Rogers.
 - 4.00 P.M. Banjo Club Rehearsal in 33 Rogers.
 - 4.00 P.M. Gymnasium Classes start at the Gym.
 - 4.00 P.M. Prof. Swain's Reading in 6 Lowell.
 - 4.15 P.M. Glee Club Rehearsal at the Union.
- WEDNESDAY, NOVEMBER 21.
- 8.00 P.M. American Institute of Electrical Engineers Meet in 6 Lowell.

FACULTY NOTICES.

Fourth Year.—An examination will be held in Dynamics of Machines on Saturday afternoon, Dec. 15, at 8 P.M., in 20 Eng. A.

Fourth Year.—The exercises in Chemistry of Water and Sewage will begin Nov. 21, in 23 Walker on Wednesdays, and 20 Walker on Saturdays.

Announcement.—Professor Tyler having resigned the Secretaryship of the Faculty, Professor Merrill has been elected Secretary, and will have office hours for all matters of Faculty business and for consultation with students in 11 Rogers, Monday, Wednesday, and Friday at 2 P.M., Tuesday, Thursday, and Saturday 11 A.M. to 12 M., beginning today.

Third Year.—The exercises in Precision of Measurements, Course II, will begin Wednesday, Nov. 21. The sections will meet according to the following room assignment: 1a, Wednesday 24 Walker, Friday 23 Walker; 1b, Wednesday and Saturday 24 Walker; 2a, Tuesday and Friday 20 Walker; 2b, Monday and Wednesday 26 Walker; 3a, Tuesday 26 Walker, Thursday 20 Walker; 3b, Tuesday 20 Walker, Saturday 26 Walker.

NOTICES.

Gym Work.—Regular class work at the gym will begin this afternoon at 4.15. The classes are open to all students whether they have taken physical examinations or not.

Electrical Engineers.—The local branch of the American Institute of Electrical Engineers will meet Wednesday evening, Nov. 21, in 6 Lowell. The meeting will be addressed by Everett W. Burdett, on "Public or Private Ownership and Operation of Public Utility Enterprises—Which is preferable?"

Mandolin Club.—On and after Monday, Nov. 19, all members of the Mandolin Club must attend the rehearsals unless special absence is granted by the Manager or Leader. Fines will be imposed for all absences and men will be dropped who are not faithful in attendance at the regular rehearsals. Members of the club should watch the Bulletin Board on the Cage for important notices.

THE TECH

Published every Monday, Wednesday, and Friday during the college year (from September to June), by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

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Subscription - - - \$1.50 per year in advance.
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In charge of this issue: W. F. DOLKE, 1908

Monday, November 19, 1906.

Now that Field Day has become a thing of the past, the lovers of athletic sports will have to turn to indoor work for their Winter recreation. One of the most important phases of this work is the gymnasium class that, beginning this afternoon, will meet at the gym three afternoons a week. The physical training is under the direction of Winfield C. Towne, a Bowdoin man, who has been one of the most popular men at the Institute since coming here three years ago. It is a well-known fact that no person is physically perfect. All of us need some sort of exercise that will tend to bring our physical being closer to perfection. Work of this kind is advantageous not only physically but also mentally. Relaxation from the constant strain of study is something that everyone needs, and physical exercise brings about this relaxation as nothing else will.

Indoor track work, basketball, fencing, and hockey are also excellent forms of physical exercise. The prospects for good fencing and basketball teams are excellent indeed, although more men are needed. The hockey team is in the usual trouble of not having a rink. Two places, the Field and the lot behind the gym, are being discussed as possibilities, if the team can get the necessary money. Men are as prime requisites as anything else, however, and the large number of vacancies on all the teams should encourage more men to come out.

The victory of the Sophomore Class on last Saturday, was clean and decisive, yet the Freshmen have every reason to be proud of the showing made by their teams.

For the past four years the second year men have won, so

that by now it is a half established tradition that the honor will fall to them, mainly through their experience gained in the first contest. Though some of the events seemed to have been won by the bad luck of one team rather than the good performance of the other, yet in the long run, chance favored each class about equally. Particularly noticeable was the amount of interest shown by the members of the two upper class men in their proteges, and this added materially to the general enthusiasm. The sopomores and freshmen who were on none of their teams, responded well to the call for men for the rush on the night before Field Day, but the weather prevented frequent encounters, and attempts to hang banners. These efforts were rewarded, and honors were about even in this respect, as both 1909 and 1910 banners were in evidence, hung high on near by trees. The management deserves special credit for the dispatch and smoothness with which the events were run off. This added to the occasion materially and kept both the members of the participating classes and the impartial spectators on their feet all of the time.

The outcome of the football game emphasized the inability of one to foretell the victor. Both teams showed surprising strength and ability to play a hard and at the same time clean game. From start to finish the play was such as to call forth the cheers of the crowd repeatedly. The shifting of the ball from one end of the field to the other together with the inability of either team to gain consistently kept every one keyed up to a high pitch in anticipation of some spectacular run or trick play which would decide the day, but which did not materialize. This with the closely contested relay race and the uncertainty of the tug-of-war made Field Day 1906 a complete success.

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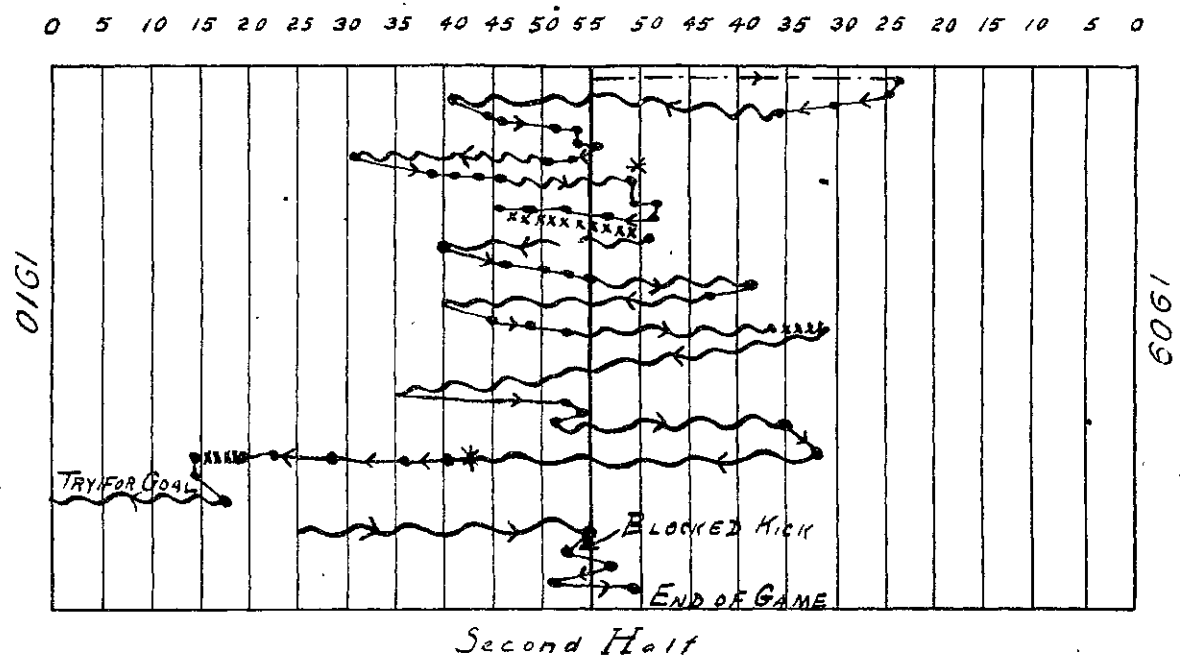
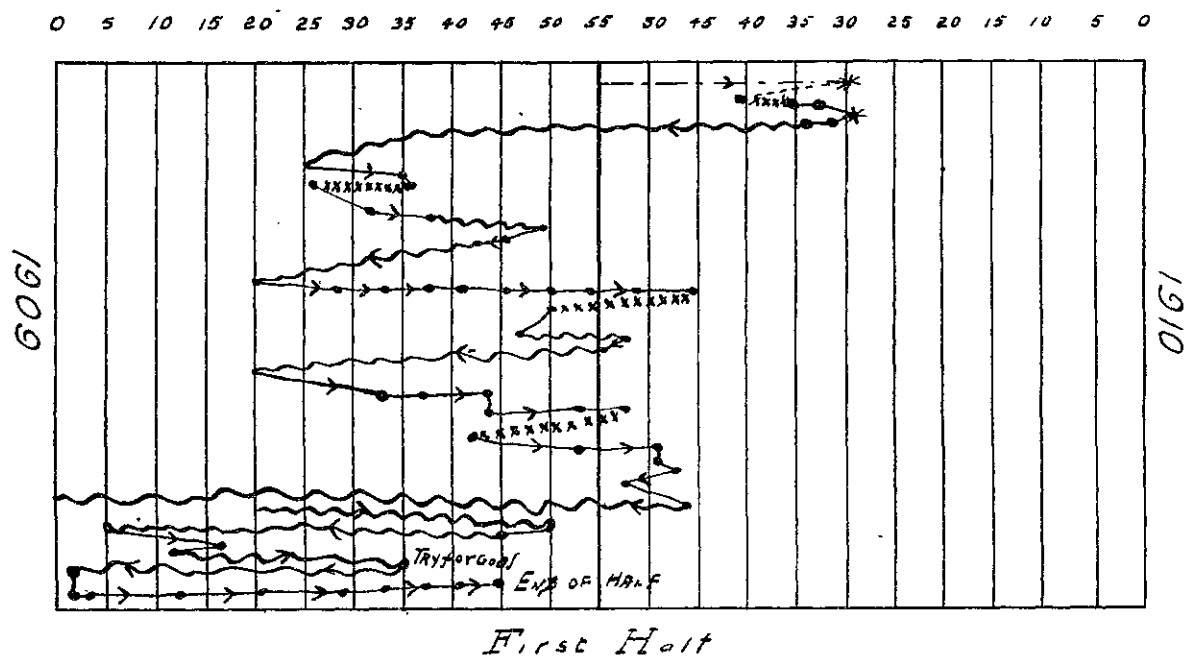
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(Continued from Page 1.)

SOPHOMORES BARELY WIN.

side of the center. The Freshmen then took such a sudden strong brace that in the brief space of ten seconds they had pulled the Sophomores over the line.

Football Game Hard Fought.

The football game gives another example of bad luck on the part of the Freshmen, for Hurley would undoubtedly have kicked a goal from the field in the first half, if the soft wet ground had not caused him to slip. The Sophomores practically threw away the game in the second half, when Wentworth tried to drop-kick a goal.

The Freshmen had the better of the first half, for they were kicking with the wind, and Hurley's punts carried for over thirty-five yards every time. On the kickoff, '10 fumbled the ball, and '09 got it on the Freshmen's 40 yard line. '10 was penalized five yards, and Moses gained three yards. '109 then tried a forward pass but it failed and '10 had the ball on its own 32 yard line. Hurley punted to Heard on '09's 25 yard line, and the ball was returned ten yards. Moses hurdled and '09 was penalized 15 yards. Heard was thrown for a loss on a quarter-back run, and a mass play netted five yards, but there were fifteen yards to go, so '09 punted. Saul got the ball on '09's 50 yard line and returned it five yards. '109 punted again and Heard was downed in his tracks on the 20 yard line.

Eaton was then put to work and in six downs gained forty yards. Hunt made six more, but '09 was penalized 15 yards for hurdling. Heard was thrown for a loss, and then punted, '10 getting the ball in the center of the field and punting to '09's 20 yard line. Eaton made eleven yards in two downs but failed to gain on his next attempt. Moses went around right end for seven yards and Eaton made ten more in two downs. '09's gain was immediately lost for Eaton again hurdled and another 15 yard penalty resulted. Hunt then carried the ball seventeen yards in two attempts, but '09 failed to make the required 6 yards for a first down.

Hurley made eight yards for '10, but on another attempt, fumbled, Hinds recovering the ball. Hurley then kicked the ball over Heard's head for a touchback. '09 punted out from the 20 yard line, Hinds getting the ball on '09's 50 yard line. Hurley then carried the ball twice for a total of six yards, and punted to Heard, who returned it to the 17 yard line. Heard was next thrown for a five yard loss, and he then punted, Saul making a fair catch on the 35 yard line. Hurley tried a place ment for goal, but his left foot slipped as he kicked the ball, and it failed to go the distance. '09 got the ball on its own 3 yard line. Hunt made no gain. Eaton then carried the ball for thirty-seven yards, and the half ended with the ball on '09's forty-five yard line.

Second Half Even.

'109 kicked off to the Sophomores in the second half, and the ball, after two short rushes, was punted to Billings on the 44 yard line. The Freshmen failed to make their distance, and the Sophomores tried a short kick. Billings got the ball on his own 33 yard line. On two trick plays, Hurley made nine yards, and Loutit was pushed along for a first down. Saul made six yards, and Loutit punted fifteen.

Leavens recovering the ball. Billings made two yards on a trick play, but a forward pass failed, Hunt catching the ball in midair.

Hunt made five yards and Eaton went along for first down. On the next play, Eaton hurdled, and '09 was penalized fifteen yards. Sharpe went in at quarter and tried a quarterback kick, Saul getting the ball on his own 42 yard line. Hurley made five yards and Hinds four; and the half ended with the ball near the center of the field.

The teams which started the games were as follows:

1909.	1910.
Fletcher, l.e.	r.e., Hinds
Pope, l.t.	r.t., Amsden
Foster, l.g.	r.g., Terry
Dow, c.	c., Roberts
Critchett, r.g.	l.g., Manson
Cook, r.t.	l.t., Leavens
Tobin, r.e.	l.e., Bell
Heard, q.b.	q.b., Billings
Moses, l.h.b.	r.h.b., Hurley
Godfrey, Hunt, r.h.b.	l.h.b., Loutit
Eaton, f.b.	f.b., Saul

Average weights: 1909, 169; 1910, 158.

1909 RELAY TEAM.

Keeney, Whitaker, Gram, Wertheim, Robinson, Havens, Allen, King, Emerson, Throckmorton, Stiebel, Parker, Perry, and Dickerman.

1910 RELAY TEAM.

Fernstrom, Stewart, Kalbach, Cummings, J. Avery, Lockett, Brown, Pope, Drew, Potter, Gould, Waldo, Wilson, and F. B. Avery.

1909 TUG-OF-WAR.

Mace, Ware, Scharff, Heidelberg, Harold, Glancy, Bundy, Black, Belcher, Nicholls, Cookinham, Nisbet, Bowers, Symonds, Weill, Fick, Luenning, Taite, Flagg, Hooper, Jacobs, Pepper, Burt, Miller, and Stevens.

1910 TUG-OF-WAR.

Fitzwater, Sawyer, Nagle, Wahlgemuth, Elliott, C. Jones, Bartlett, Foote, Burnham, Cole, Dudley, Wasserbach, Cox, Cobb, Duffield, Rice, Long, Shaw, Ronsahoff, Hooker, Siebert, Batcheler, Allen, Wilber, and Wells.

OFFICIALS.

FOOTBALL.

Referee, Joseph Pendleton. Umpire, Lawrence Duffy. Head Linesman, R. W. Stebbins, '97. Linesmen, J. F. Barnes, '08; J. Tetlow, '07.

RELAY RACE.

Referee, J. L. Batchelder, Jr., '90. Judges, J. Arnold Rockwell, '96; Wm. A. Adams, '08. Inspectors, M. D. Griswold, Williams, '06; R. C. Albrow, '07; J. M. Frank, '07; K. W. Richards, '07; J. H. Leavell, '07; L. A. Loomis, '08; T. W. Orr, '08; H. A. Rapelye, '08; H. R. Putnam, '08; R. B. Todd, '08.

TUG-OF-WAR.

Referee, F. H. Briggs, '81. Judges, R. S. Franklin, '03; G. T. Glover, '08.

IN ALL EVENTS.

Starter, J. F. Mahan.

MARSHALS '07.

L. Allen, R. W. Parlin, A. Macomber, S. A. Marx, E. H. Packard, E. F. Whitney, D. G. Robbins, G. S. Gould, A. H. Donnewald, O. H. Starkweather, W. L. Woodward, H. S. Wonsen.

MARSHALS '08.

H. T. Gerrish, S. H. Daddow, H. E. Elton, W. B. Given, Jr., H. McCready, F. H. McGuigan, G. H. Pierce, A. G. Place, J. B. Stewart, Jr., F. B. Stevens, Jr., K. Vonnegut, L. B. Ellis.

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PROF. SWAIN'S READINGS.

Professor Swain will begin this
 afternoon to continue the course
 of readings which he gave last
 year. The readings will be given
 every Monday afternoon at 4 P.M.
 in 6 Lowell. It is Prof. Swain's
 idea to present not technical but
 general subjects chosen with the
 object of reading those selections
 that will prove helpful to college
 men. Men from all courses are
 cordially invited to attend, as it is
 believed that this course of read-
 ings will prove of benefit to all.

OHIO MEN MEET.

The Ohio State Club held its
 first meeting of the year Thursday
 at 1 P.M. Most of the members
 from the upper classes were pres-
 ent. Ordinary business was at-
 tended to, among which was the
 election of Webb as temporary
 secretary. Another meeting of the
 club will be held Tuesday, Nov.
 27, at 1 P.M. All new men from
 Ohio will be notified of the next
 meeting by mail.

The Ohio State Club was organ-
 ized two years ago, and its purpose
 is to promote sociability and good-
 fellowship among the Tech men
 from Ohio. All such men are cor-
 dially invited to attend meetings.

SENIOR PORTFOLIO.

Nominations for the Senior Port-
 folio Committee must be in by
 Wednesday, November, 21. These
 nominations must be signed by the
 usual number, ten men, and left
 at the Cage for the election com-
 mittee. A large number of nomi-
 nations is especially desired from
 which to elect the five men.

Ralph Chipman Hawley, of Am-
 herst, Mass., Assistant State Fore-
 ster of Massachusetts, has resigned
 to accept a call from the Yale Uni-
 versity to a place on the Faculty
 of the Department of Forestry.

PRIZES FOR ESSAYS.

Messrs. Hart, Schaffner & Marx,
 of Chicago, have offered through a
 competent Committee some very
 large prizes for the best essays on
 economic subjects. For the third
 time, a first prize of \$1,000, and a
 second prize of \$500, are offered to
 graduate students; and to under-
 graduates, a first prize of \$300 and
 a second prize of \$150. These
 papers must be sent in by June 1,
 1907, to Professor J. Laurence
 Laughlin, University of Chicago.
 The subjects assigned are as fol-
 lows:

1. The practical wisdom of
 freeing raw materials, essential to
 subsequent manufactures, from
 customs-duties when entering the
 United States.
2. The best methods of obtain-
 ing an elastic currency in times of
 panic.
3. To what extent, and in what
 form, are socialistic tenets held in
 the United States.
4. In what respect and, to what
 extent, have combinations among
 American railways limited or mod-
 ified the influence of competition?
5. The best methods of avoid-
 ing resort to force by labor unions
 in their contests with employers.
6. The effect of "trusts" upon
 the prices of goods produced by
 them.
7. How far does the earning
 power of skill obtain under a regime
 of trade unions?
8. A critical study of modern
 commercial methods for distribut-
 ing products to consumers.
9. The development of econo-
 mic theory since John Stuart
 Mill.

The committee in charge is com-
 posed of Professor J. Laurence
 Laughlin, University of Chicago,
 Chairman; Professor J. B. Clark,
 Columbia University; Professor
 Henry C. Adams, University of
 Michigan; Hon. Horace White,
 New York City; Hon. Carroll D.
 Wright, Pres. of Clark College.

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NOTICES.

Fencing.—There will be a meeting of all men interested in fencing today at 1 P.M., in 22 Rogers, to elect a Manager for the Fencing Team.

Mexican Club.—The recently organized Mexican Club held a meeting the other day, when a Constitution was adopted and plans formulated. The club is still without a name. It was decided that any former resident of Mexico or any one claiming residence there is eligible to membership. The Club will dine some time this month.

Civic Club.—The Civic Club will hold a meeting Friday evening, Nov. 23, at 7 P.M., at the Union. Mr. F. M. Balch, of the Good Government Association of Boston will address the Club on the work of this Association. Refreshments will be served. A full attendance of members is expected and outsiders are cordially invited to be present.

THE NEW CALENDAR.

An absolutely new Tech Calendar has been gotten out this year and will be on sale sometime during the next fortnight. It consists of six leaves bound in a grey cover upon which is embossed a red Tech seal. Each leaf is divided into four parts with the calendars of two months in two of the corners, and with pictures of interest for Tech men in the two remaining; the four figures being bound together by a very pretty design in two colors. Among the pictures chosen are those of Prexy, the Dean, the buildings, the Institute Committee, and the Track Team.

Taken all in all, the calendar compares favorably with those of many colleges, and undoubtedly surpasses anything of this kind previously published at the Institute.

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FENCING TEAM PROSPECTS.

The Fencing Team is to begin preparations for the season this noon with a meeting in 22 Rogers to elect a manager. All persons who are interested in the team are requested to be present.

The prospects for a good team are fairly good this year. Captain Bountheau is very optimistic over the outlook, although he feels that there is strong need for more men. There are a number of men out now, and all are showing up well. Weinhagen, who started to fence last year, is doing good work. Lange, formerly captain of the Springfield High School team is getting into shape fast and promises to become a strong man.

Loring has fenced in Chicago, where he took a number of prizes, and also in Europe, where he took lessons. These men are the most prominent candidates for the two open positions.

It is planned to have both a Sophomore and a Freshman fencing team this winter, with outside meets, and one between the two classes.

BASKETBALL BEGINS TODAY.

Basketball practise will begin this afternoon at the Gym. There is a large number of candidates out for the team, and with so many of the old men back, the outlook for a strong team is good.

Kinnear, of last year's team, is acting as captain, and Belcher, Pierce and Wentworth of the second team are out for first team positions. The schedule prepared by Manager Whitmore is an excellent one and will give the team some hard games.

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HOLLIS.—"Peter Pan."

MAJESTIC.—"The Rose of the Rancho."

PARK.—"The Mountain Climber."

TREMONT.—"The College Widow."

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